Attorney Docket No. P13255
Customer Number 27045

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for continuous allocation of real-time traffic in a communication network, comprising the steps of:

allocating a first unit of real-time data for transmission during a first interval with a first transmission rate;

allocating non-real-time data for transmission during a second interval;

allocating a second unit of real-time data for transmission during a third interval with a second transmission rate; and

allocating a third unit of real-time data for transmission during said third interval with said second transmission rate

wherein each of said intervals is sequential and comprises a block in a timeslot.

2. (Original) The method of claim 1, wherein said real-time data includes speech data.

3. (Original) The method of claim 1, wherein each said first unit, second unit and third unit of real-time data comprises a respective 20 ms signal output from a speech codec.

4. (Original) The method of claim 1, wherein said communication network comprises a TDMA communication network.

5. (Canceled).

6. (Original) The method of claim 1, wherein said first transmission rate comprises a transmission at a full-rate.

7. (Original) The method of claim 1, wherein said first transmission rate is a higher rate than said second transmission rate.

8. (Original) The method of claim 1, wherein said second transmission rate comprises a transmission at a half-rate.

9. (Original) The method of claim 1, wherein said non-real-time data comprises control data.

10. (Currently Amended) A method for continuous allocation of real-time traffic in a communication network, comprising the steps of:

allocating a first unit of real-time data for transmission during a first interval with a first transmission rate;

allocating non-real-time data for transmission during a second interval;

allocating a second unit of real-time data for transmission during said second interval with a second transmission rate; and

allocating a third unit of real-time data for transmission during said second interval with said second transmission rate,

wherein each of said intervals is sequential and comprises a block in one or more timeslots.

11. (Original) The method of claim 10, wherein the step of allocating said non-real-time data further comprises allocating said non-real-time data for a first timeslot, and the steps of allocating said second unit of real-time data and said third unit of real-time data further comprises allocating said second unit of real-time data and said third unit of real-time data for a second timeslot.

12. (Original) The method of claim 10, wherein said first and second units of real-time data are allocated to a first user, and said third unit of real-time data is allocated to a second user.

13. (Original) The method of claim 10, wherein said real-time data includes speech data.

14. (Original) The method of claim 10, wherein each of said first unit, second unit and third unit of real-time data comprises a respective 20 ms signal output from a speech codec.

15. (Original) The method of claim 10, wherein said communication network comprises a TDMA communication network.

16. (Original) The method of claim 10, wherein said communication network comprises a Compact EDGE network.

17. (Canceled).

18. (Original) The method of claim 10, wherein said first transmission rate comprises a transmission at a full-rate.

19. (Original) The method of claim 10, wherein said first transmission rate is a higher rate than said second transmission rate.

20. (Original) The method of claim 10, wherein said second transmission rate comprises a transmisslon at a half-rate.

21. (Original) The method of claim 10, wherein said non-real-time data comprises control data.

22. (Currently Amended) A method for continuous allocation of real-time traffic in a communication network, comprising the steps of:

allocating a first unit of real-time data for transmission during a first interval with a predetermined transmission rate;

allocating a second unit of real-time data for transmission during said first interval;

allocating non-real-time data for transmission during a second interval;

determining if said second interval is not contiguous with said first interval; and

if said second interval is not contiguous with said first interval, allocating a third unit of real-time data and a fourth unit of real-time data for transmission during a third interval with said predetermined transmission rate, and allocating a fifth unit of real-time data and a sixth unit of real-time data for transmission during a fourth interval with said predetermined transmission rate, said third interval contiguous with said second interval, and said fourth interval contiguous with said third interval,

wherein each of said intervals is sequential and comprises a block in a timeslot.

23. (Original) The method of claim 22, wherein said first unit of real-time data includes speech data.

24. (Original) The method of claim 22, wherein each of said first unit, second unit, third unit, fourth unit, fifth unit and sixth unit of real-time data comprises a 20 ms signal output from a speech codec.

25. (Original) The method of claim 22, wherein said communication network comprises a TDMA communication network.

26. (Original) The method of claim 22, wherein said communication network comprises a Compact EDGE network.

27. (Canceled).

28. (Original) The method of claim 22, wherein said predetermined transmission rate comprises a transmission at a half-rate.

29. (Original) The method of claim 22, wherein said non-real-time data comprises control data.

30. (Currently Amended) A system for continuous allocation of real-time traffic, comprising:

a network control unit; and

a terminal unit coupled to said network control unit by a transmission medium, said network control unit further comprising:

means for allocating a first unit of real-time data for transmission during a first interval with a first transmission rate;

means for allocating non-real-time data for transmission during a second interval;

means for allocating a second unit of real-time data for transmission during a third interval with a second transmission rate; and

means for allocating a third unit of real-time data for transmission during said third interval with said second transmission rate;

wherein each of said intervals is sequential and comprises a block in a timeslot.

31. (Original) The system of claim 30, wherein said first unit of real-time data includes speech data.

32. (Original) The system of claim 30, wherein each of said first unit, second unit and third unit of real-time data comprises a 20 ms signal output from a speech codec.

33. (Original) The system of claim 30, wherein said system comprises a TDMA communication system.

34. (Original) The system of claim 30, wherein said system comprises a Compact EDGE communication system.

35. (Canceled).

36. (Original) The system of claim 30, wherein said first transmission rate comprises a transmission at a full-rate.

37. (Original) The system of claim 30, wherein said first transmission rate is higher than said second transmission rate.

38. (Original) The system of claim 30, wherein said second transmission rate comprises a transmission at a half-rate.

39. (Original) The system of claim 30, wherein said non-real-time data comprises control data.

40. (Currently Amended) A system for continuous allocation of real-time traffic, comprising:

a network control unit; and

a terminal coupled to said network control unit by a transmission medium, said network control unit further comprising:

means for allocating a first unit of real-time data for transmission during a first interval with a first transmission rate;

means for allocating non-real-time data for transmission during a second interval;

means for allocating a second unit of real-time data for transmission during said second interval with a second transmission rate;

and means for allocating a third unit of real-time data for transmission during said second interval,

wherein each of said intervals is sequential and comprises a block in a timeslot.

41. (Currently Amended) A system for continuous allocation of real-time traffic, comprising:

a network control unit; and

a terminal coupled to said network control unit by a transmission medium, said network control unit further comprising:

means for allocating a first unit of real-time data for transmission during a first interval with a predetermined transmission rate;

means for allocating a second unit of real-time data for transmission during said first interval;

means for allocating non-real-time data for transmission during a second interval;

means for determining if said second interval is not contiguous with said first interval, and if said second interval is not contiguous with said first interval, allocating a third unit of real-time data and a fourth unit of real-time data for transmission during a third interval with said predetermined transmission rate, and allocating a fifth unit of real-time data and a sixth unit of real-time data for transmission during a fourth interval with said predetermined transmission rate, said third interval contiguous with said second interval, and said fourth interval contiguous with said third interval,

wherein each of said intervals is sequential and comprises a block in a timeslot.